

Tárgyleírás

Tárgy neve: Cognitive Science

Tárgyfelelős neve: Király Ildikó

Tárgyfelelős tudományos fokozata: DLA

Tárgyfelelős MAB szerinti akkreditációs státusza: V

Az oktatás célja angolul / Aim of the subject:

Knowledge

- They have comprehensive and up-to-date knowledge of general mathematical and computing principles
- Possess the knowledge of specific tools and methods of Artificial Intelligence

Abilities:

- They are able to apply their mathematical, computer science and informatics skills in a novel way in order to solve tasks in IT research and development.
- They are able to formalize complex IT tasks, to identify and study their theoretical and practical background and then to solve them.

Attitude:

- They follow professional and technological developments in their IT field.
- They are committed to lifelong learning and are open to acquiring new IT competencies.

Autonomy, responsibility:

- They take responsibility for their professional decisions made in their IT-related activities.
- They undertake to meet deadlines and to have deadlines met.
- They bear responsibility for their own work as well as for the work of their colleagues they work together with in a project.
- Regarding mission critical IT systems, they can be entrusted with developing and operational responsibilities that are in accordance with their professional competencies.

Az oktatás tartalma angolul / Major topics:

The aim of this course is to provide an overview of topics and methods of Cognitive Science. Besides introducing theoretical models of this scientific field, lectures will be given on different current research areas of Cognitive Science, including perception, attention, learning and curiosity, memory and language, social cognition. We will approach each topic of cognition from different angles, aiming to answer questions such as: Do humans differ from other animals in this cognitive ability? How could it be studied? What are the brain mechanisms supporting

it? Is it innate and/or how does it develop? What happens if it does not function properly? Why do we care?

A számonkérés és értékelés rendszere angolul / Requirements and evaluation:

Mixed assessment, exam

Irodalom / Literature:

Compulsory:

- Jose Luis Bermudez, J L (2010). Cognitive Science: An introduction to the Science of the Mind. Cambridge University Press; (ISBN-13: 978-1107653351)

Recommended:

- Freidenberg, J, Silverman, G (2016). Cognitive Science: An introduction to the Study of Mind. Sage Publications
 - Eysenck, M., Keane, M. T. (2015). Cognitive Psychology: A students's handbook. Psychology Press
-